

Report No.:

Test Time: 06.05.2020 17:41

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 58 L 200LED 55W Refond 3N 4000K 96x55 rp

Number of Lamps: 1

Luminous Length (mm): 1500

Luminous Width (mm): 75

Luminous Height (mm): 60

Voltage: 229.2 V

Current: 0.226 A

Power: 51.11 W

Power Factor: 0.985

Photometric Results

CIE Class: Direct

Measurement Flux: 7825.5 lm

Downward Ratio: 100%

Total Rated Lamp Lumens: 7825.5 lm

Efficiency: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 134.6, 96.4, 113.3, 113.3

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 95.1, 54.5, 63.2, 63.2

Luminaire Efficacy Rating (LER): 153.16

Central Intensity: 5422.63 cd

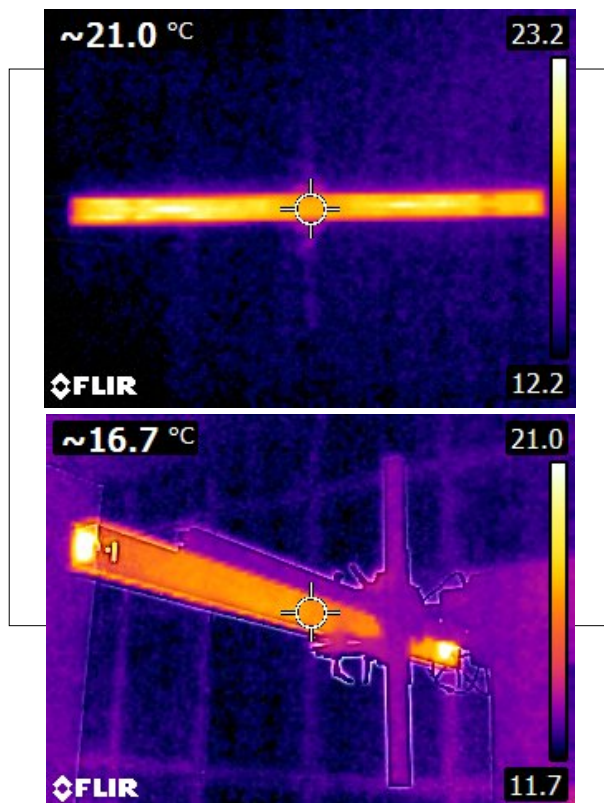
Max. Intensity: 5459.34 cd

Pos of Max. Intensity: H157.5 V2

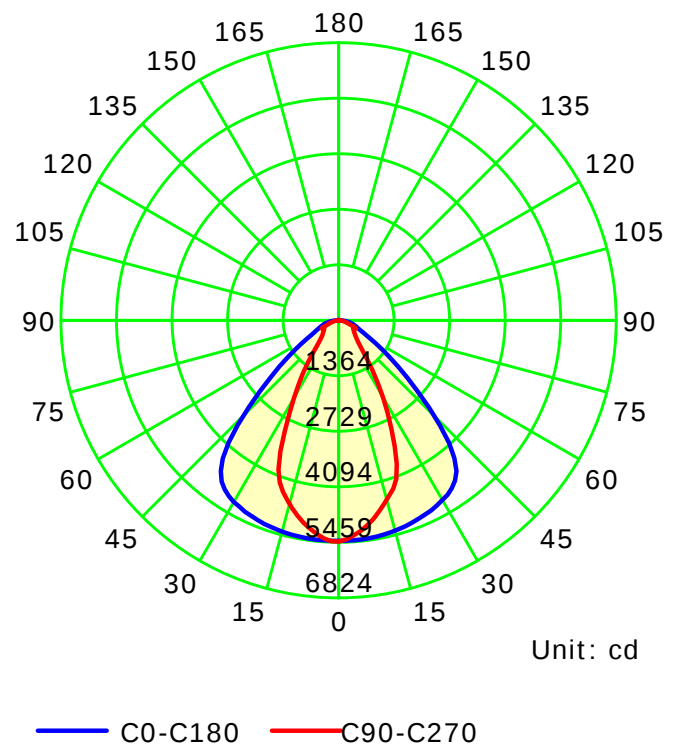
S/MH(C0/C180): 1.40

S/MH(C90/C270): 0.87

Termogramma



Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

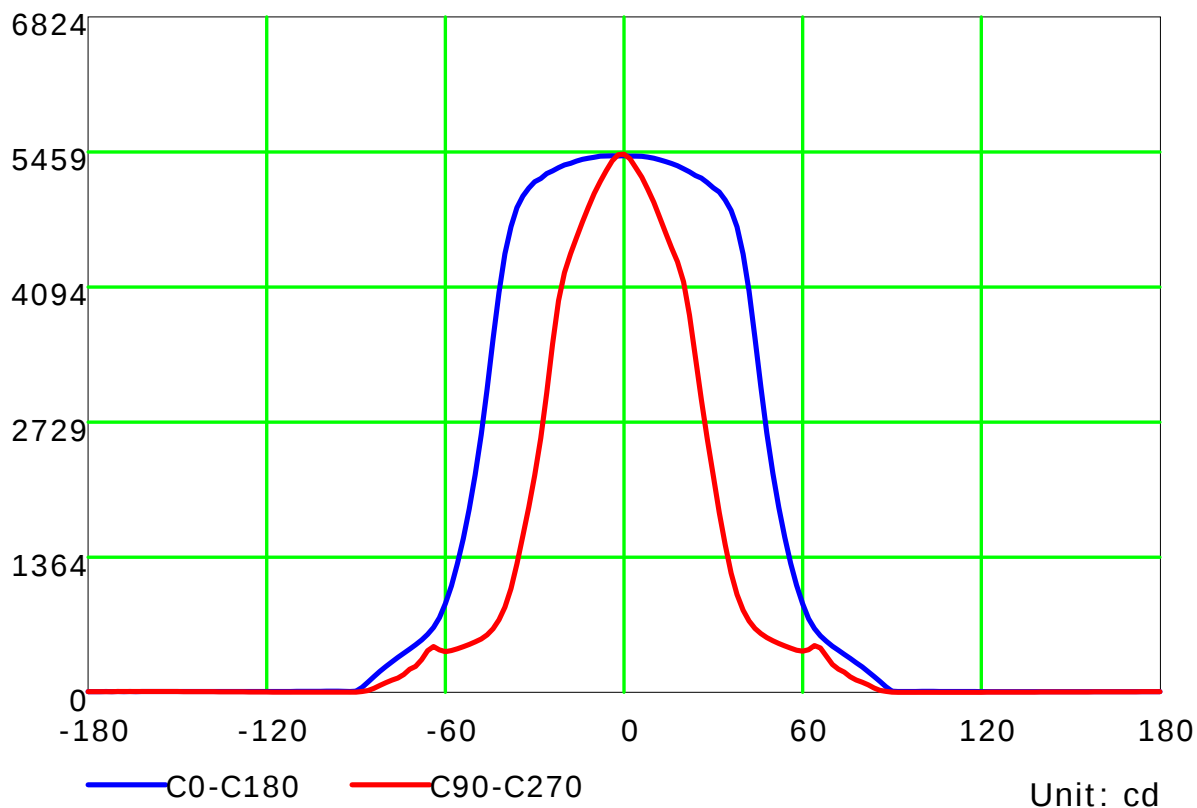
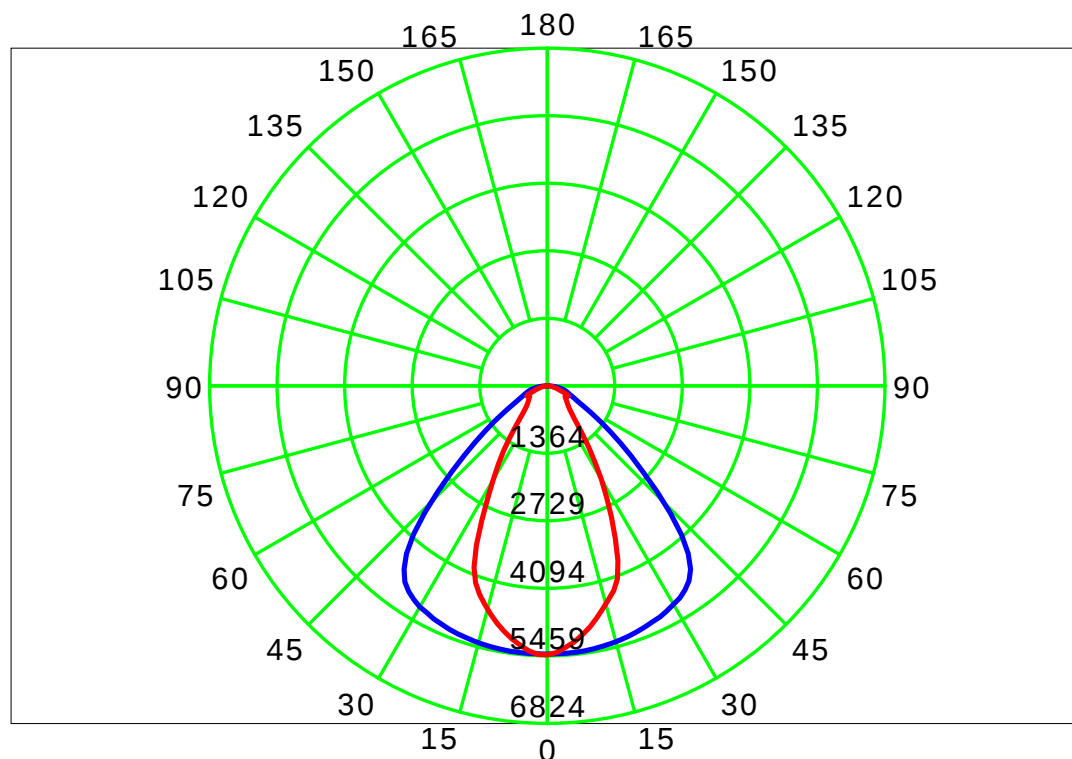
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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Test Lab:

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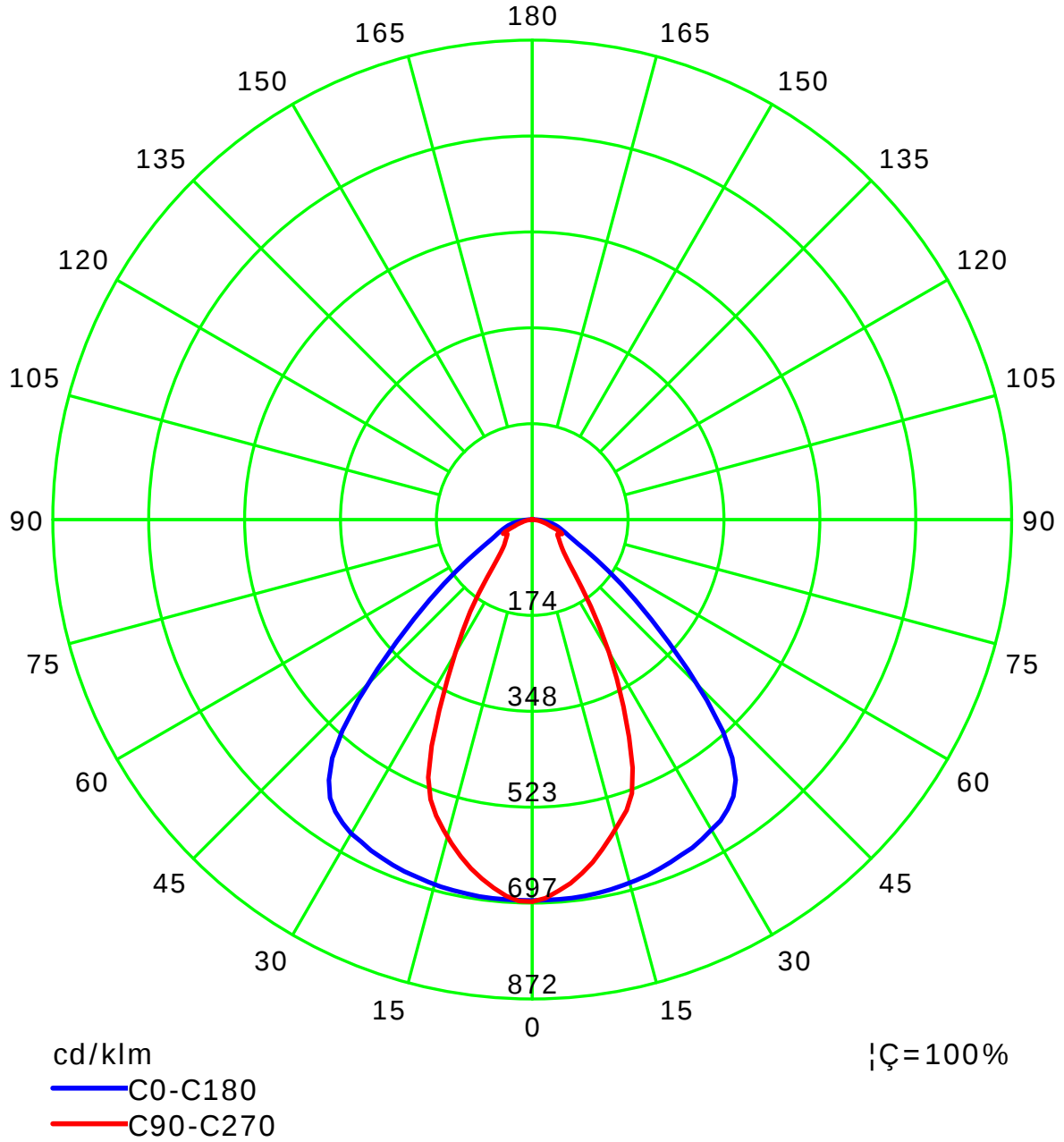
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd / klm)



C Plane (°): 0.0-360.0: 22.5

Test Lab:

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Temperature:

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Test Device: LSG-1800B

Distance: 12.677 m

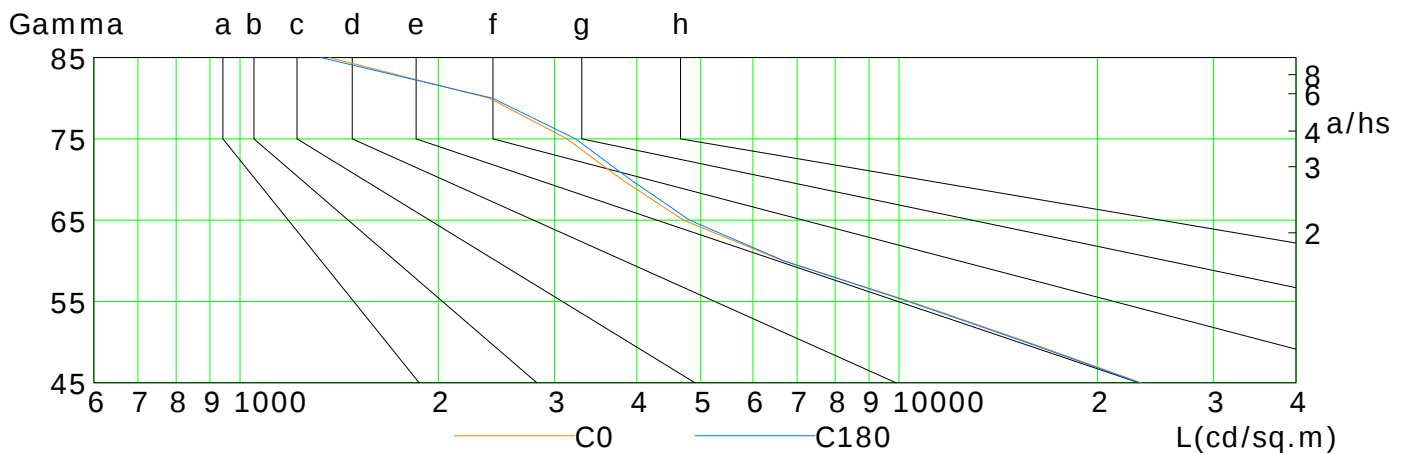
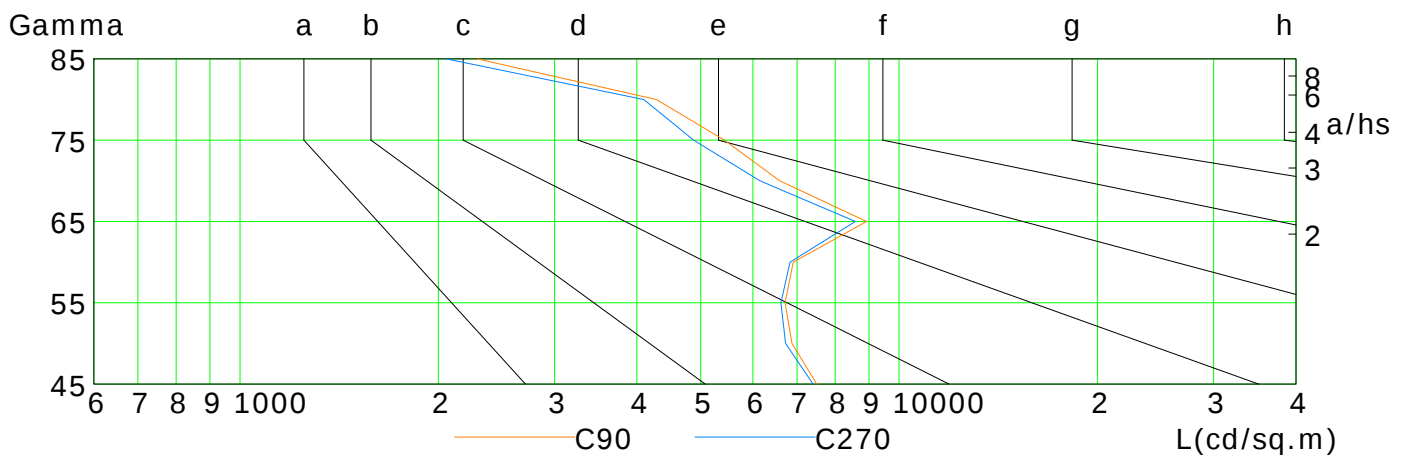
Humidity:

Inspector:

Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300

a b c d e f g h



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	23283	15670	10395	6665	4709	3795	3135	2390	1365
C90	7498	6878	6715	6910	8923	6592	5430	4283	2290
C180	23180	15555	10319	6687	4812	3909	3229	2415	1326
C270	7404	6725	6618	6831	8581	6148	4877	4096	2056

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Test Type: TYPE C

Temperature:

Operator:

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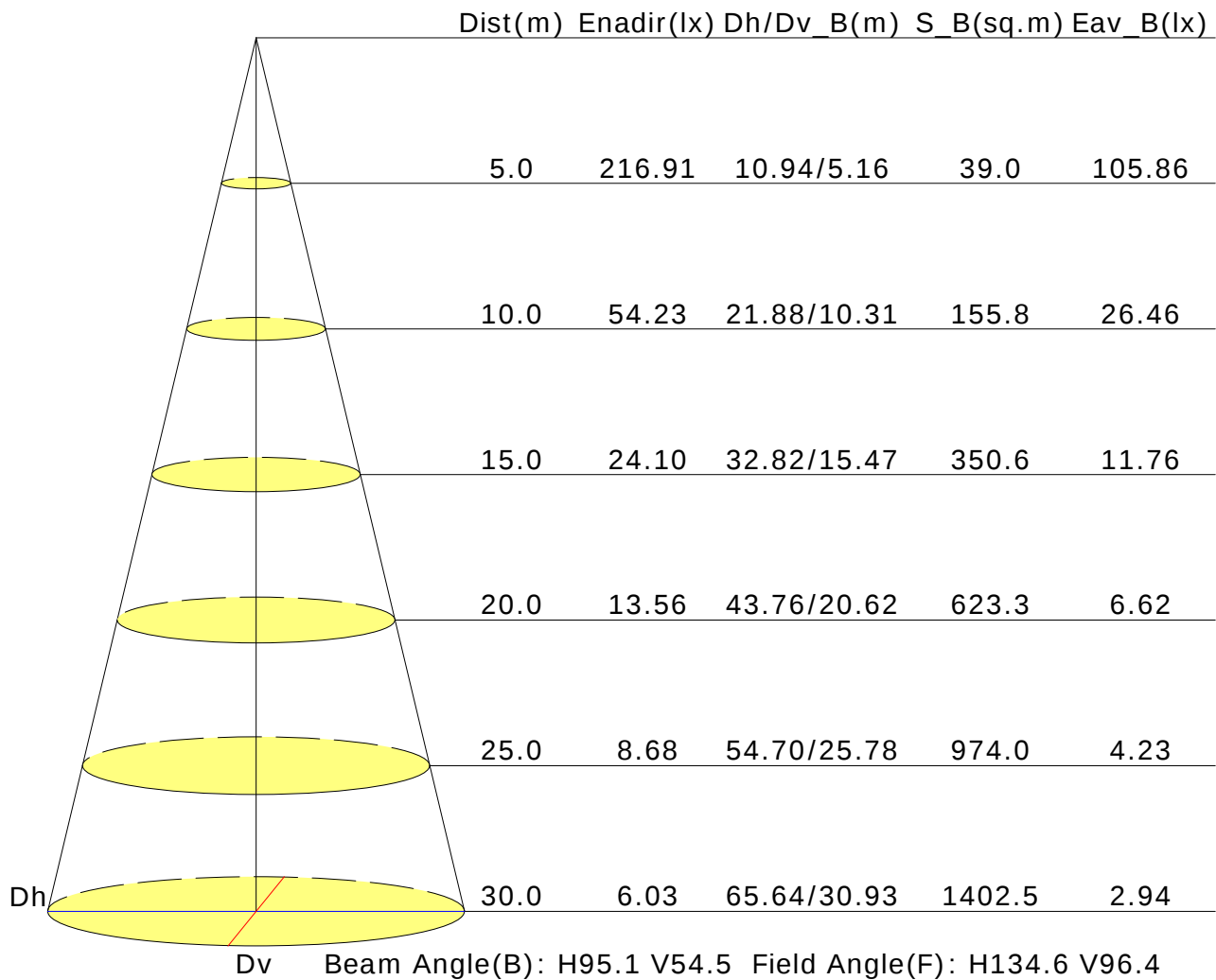
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Illuminance at a Distance



UGR Table

Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	19.8	20.9	20.0	21.1	21.3	15.9	17.0	16.2	17.2	17.5
3H	20.2	21.3	20.6	21.5	21.8	17.6	18.6	17.9	18.9	19.1
4H	20.5	21.5	20.8	21.7	22.0	18.0	19.0	18.4	19.3	19.6
6H	20.7	21.6	21.0	21.9	22.2	18.3	19.2	18.6	19.5	19.8
8H	20.7	21.6	21.1	21.9	22.3	18.4	19.2	18.7	19.5	19.9
12H	20.8	21.6	21.2	21.9	22.3	18.4	19.2	18.7	19.5	19.9
X=4H Y=2H	19.8	20.7	20.1	21.0	21.3	16.4	17.4	16.7	17.6	17.9
3H	20.4	21.3	20.8	21.6	21.9	18.2	19.0	18.6	19.4	19.7
4H	20.8	21.5	21.2	21.9	22.3	18.7	19.5	19.1	19.8	20.2
6H	21.1	21.8	21.5	22.1	22.6	19.1	19.7	19.5	20.1	20.5
8H	21.2	21.8	21.7	22.2	22.6	19.1	19.7	19.6	20.1	20.6
12H	21.3	21.8	21.7	22.2	22.7	19.2	19.7	19.6	20.1	20.6
X=8H Y=4H	20.9	21.5	21.3	21.9	22.3	18.9	19.5	19.3	19.9	20.3
6H	21.3	21.7	21.7	22.2	22.6	19.3	19.8	19.8	20.2	20.7
8H	21.4	21.8	21.9	22.3	22.8	19.4	19.9	19.9	20.3	20.8
12H	21.5	21.9	22.0	22.4	22.9	19.5	19.8	20.0	20.3	20.8
X=12H Y=4H	20.8	21.4	21.3	21.8	22.2	18.9	19.4	19.4	19.9	20.3
6H	21.2	21.7	21.7	22.1	22.6	19.3	19.7	19.8	20.2	20.7
8H	21.4	21.8	21.9	22.3	22.8	19.5	19.8	20.0	20.3	20.8
Variations with the observer position at spacings:										
S=1.0H	+1.2/-1.1					+0.4/-0.3				
S=1.5H	+2.9/-1.8					+1.5/-0.7				
S=2.0H	+4.4/-2.4					+1.9/-0.7				

Calculate in accordance with CIE Pub.117. The table is revised with 7825lm ($8\log(F/F_0) = 7.1$).

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Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 1.00									
Room Reflectance			Room Index(RI)									
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	0.71	0.79	0.85	0.89	0.95	0.99	1.01	1.05	1.07	
	0.30		0.64	0.73	0.79	0.84	0.90	0.94	0.97	1.02	1.04	
	0.20		0.60	0.68	0.75	0.79	0.86	0.91	0.94	0.99	1.02	
0.50	0.50	0.20	0.69	0.77	0.83	0.86	0.92	0.95	0.98	1.01	1.03	
	0.30		0.63	0.72	0.78	0.82	0.88	0.92	0.94	0.98	1.00	
	0.20		0.59	0.68	0.74	0.78	0.84	0.89	0.92	0.96	0.99	
0.30	0.50	0.20	0.68	0.75	0.80	0.84	0.89	0.92	0.94	0.97	0.99	
	0.30		0.63	0.71	0.76	0.80	0.86	0.89	0.92	0.95	0.97	
	0.20		0.59	0.67	0.73	0.77	0.83	0.87	0.89	0.93	0.95	
0.00	0.00	0.00	0.57	0.65	0.70	0.74	0.79	0.83	0.85	0.89	0.91	
Rating:51W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

Utilisation Factor Table(Wall)

Utilisation Factors UF(W)			SHR NOM = 1.00									
Room Reflectance			Room Index(RI)									
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	0.79	0.65	0.55	0.47	0.38	0.31	0.27	0.21	0.17	
	0.30		0.66	0.55	0.48	0.42	0.34	0.29	0.25	0.19	0.16	
	0.20		0.57	0.48	0.42	0.38	0.31	0.26	0.23	0.18	0.15	
0.50	0.50	0.20	0.76	0.62	0.52	0.45	0.36	0.33	0.25	0.19	0.16	
	0.30		0.64	0.53	0.46	0.40	0.33	0.27	0.23	0.18	0.15	
	0.20		0.56	0.47	0.41	0.37	0.30	0.25	0.22	0.17	0.14	
0.30	0.50	0.20	0.73	0.59	0.50	0.43	0.34	0.28	0.24	0.18	0.15	
	0.30		0.63	0.52	0.44	0.39	0.31	0.26	0.22	0.17	0.14	
	0.20		0.55	0.46	0.40	0.36	0.29	0.24	0.21	0.17	0.14	
0.00	0.00	0.00	0.43	0.35	0.30	0.26	0.21	0.17	0.15	0.11	0.09	
Rating:51W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

Utilisation Factor Table(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 1.00									
Room Reflectance			Room Index(RI)									
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	0.15	0.17	0.17	0.18	0.19	0.20	0.21	0.21	0.22	
	0.30		0.10	0.11	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		0.06	0.08	0.09	0.10	0.12	0.14	0.15	0.17	0.18	
0.50	0.50	0.20	0.15	0.16	0.17	0.18	0.19	0.19	0.20	0.20	0.21	
	0.30		0.09	0.11	0.12	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.06	0.07	0.09	0.10	0.12	0.14	0.15	0.16	0.17	
0.30	0.50	0.20	0.14	0.15	0.16	0.17	0.18	0.19	0.19	0.20	0.20	
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.18	
	0.20		0.06	0.07	0.09	0.10	0.12	0.13	0.14	0.16	0.17	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Rating:51W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												